

tttgttttaacaaacatgtttattagaaaagtaaaaaatattgcataggtcttagtacttgaacatcaagtgtall 75  
catgaaccgtgagtatcttcatgtaaacagttcttagATGGAAGACCCAGGTGGCGCTCCTCTGGGGGAGAGGGT 150  
\* M E D P G G A P L G E R V 13

CCAGCCCCCACCCTCAGCCCCATCCCCTCACAGCTCACTCCTCCAGTACACCGGCACCGGGATGGGCTGGG 225  
P A P H P P Q P H P L T A H S S S T P A P G W A G 38

ATGCAGCTCCAGGACCCCTCCCTCCTCACCACACCCTGGCTGCCCGCTCCCGCCAGGCCTTGCCGGACCGGGCG 300  
M Q L Q D P L P P H H T L A A R S R Q A L P D P A 63

CGGTCTACTCTTCCCTGTCACCACAGTCAACACGGGCGGGTATCGGCACCCCAAGCGCAAAGCTGACGTGCCCC 375  
A S T L P C H P Q S P R A G I G T P S A K L T C P 88

CCCGTGCGGTCCCCCATCTCCACCGCCAGTCCCCGGCAGCGATGAGACAGAGCGGCACCTCCCAGCCCCCTG 450  
P V R S P P S P T A Q S P A A M R Q S G T S Q P L 113

CTGATCAACATGTACCTACCAGATCCCGTCGGAGATGGTCTTTTAAAGGAAGGGAAGAGCCCCGAGCTGGGGGCCG 525  
L I N M Y L P D P V G D G L F K E G K S P S W G P 138

CTGAGCCCTGCGGTACAGAAAGGCAGCGGGCAGATCCAGTTGTGGCAGTTTCTACTGGAGCTGCTGGCAGACCGC 600  
L S P A V Q K G S G Q I O L W O F L L E L L A D R 163

GCGAACGCCGGCTGCATCGGTGGGAGGGCGGCCACGGCGAGTTCAAGCTCACCGACCCCGACGAGGTGGCGCGA 675  
A N A G C I A W E G G H G E F K L T D P D E V A R 188

CGTGGGGCGAGCGCAAGAGCAAGCCCAATATGAACTACGACAAGCTAAGTCGAGCACTGCGCTACTACTACGAC 750  
R W G E R K S K P N M N Y D K L S R A L R Y Y Y D 213

AAAPACATCATGAGCAAGGTGCACGGCAAGCGCTACGCCTACCGCTTTGACTTCAGGGCCTGGCACAGGCTTGC 825  
K N I M S K V H G K R Y A Y R F D F Q G L A Q A C 238

CAGCCACCACCCGCGCACGCCCACGCGCCGCTGCCGCCGCCGAGCGGCAGCCGCCGCCGAGGATGGCGCACTT 900  
Q P P P A H A H A A A A A A A A A A A A Q D G A L 263

TACAAGCTCCCGGCTGGTCTGGCTCCACTGCCCTTCCCCGGCTCTCCAACTCAACCTTATGGCAGCCTCGGCC 975  
Y K L P A G L A P L P F P G L S K L N L M A A S A 288

GGCGTGGCGCCCGCTGGCTTCTCTTACTGGCCTGGTCCCAACGCCACCGCCGCTGCCGCCGCCACCGCTGCGCTC 1050  
G V A P A G F S Y W P G P N A T A A A A A T A A L 313

TACCAACCCCGGGCTTGCAGCCCCCTCCCGGGCCCTTTGGCGCGGTGGCCGCCGCTTCGCACTTGGGGGGTCAT 1125  
Y P T P G L Q P P P G P F G A V A A A S H L G G H 338

TATCACTagacgggacggccgggtgcagtggggcctctccacacagccagtgaaccaatcccatcctcctcctgg 1200  
Y H \*

gaggagccccgaagatttccccgacgttccctttaccacagatttgcgttcgagcagccgctcccagcccagggaag 1275  
aaaggatgggaagcctctgaggtcttcccttgaatacagaggttccaggtccattatcatcaccacaggaagg 1350  
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aaaaaaaaaaaaaaaaaaaaaaaaaaaa

FIG. 1

	5	15	25	35	45	55	65	75	85	
RATPET	GSQIQ-LWQ	FLLELLADRA	N--AGCIAWE	G-GHGEFKLT	--DPDEVARR	WGERK-SKPN	MNYDKLSRAL	RYDDKNIMS	KVH-GKRYAY	RF
MUSFL1	GSQIQ-LWQ	FLLELLSDSA	N--ASCITWE	G-TNGEFKMT	--DPDEVARR	WGERK-SKPN	MNYDKLSRAL	RYDDKNIMT	KVH-GKRYAY	KF
HUMERG	GSQIQ-LWQ	FLLELLSDSS	N--SSCITWE	G-TNGEFKMT	--DPDEVARR	WGERK-SKPN	MNYDKLSRAL	RYDDKNIMT	KVH-GKRYAY	KF
DROETS3	GSQIQ-LWQ	FLLELLSDSN	N--ASCITWE	G-TNGEFKLT	--DPDEVARR	WGERK-SKPN	MNYDKLSRAL	R-----	-----	--
DROETS6	SGGQIQ-LWQ	FLLELLADSS	N--ANAISWE	G-QSGEFRLI	--DPDEVARR	WGERK-AKPN	MNYDKLSRAL	RYDDKNIMT	KVH-GKRYAY	KF
RATETS1	GSQIQ-LWQ	FLLELLTDKS	C--QSFIWT	G-DGWEFKLS	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTA-GKRYVY	RF
VETS	GSQIQ-LWQ	FLLELLTDKS	C--QSFIWT	G-DGWEFKLS	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNVIH	KTA-GKRYVY	RF
MUSET2	GSQIQ-LWQ	FLLELLSDKS	C--QSFIWT	G-DGWEFKLA	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
DROPNT1	GSQIQ-LWQ	FLLELLLDKT	C--QSFIWT	G-DGWEFKLT	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTA-GKRYVY	RF
MUSER71	HRGPIQ-LWQ	FLLELLQDGA	R--SSCIRWT	G-NSREFQLC	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
DROELG	NNGQIQ-LWQ	FLLEILLTDC	H--TDVIEWV	G-TEGEFKLT	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
MUSGABP	NNGQIQ-LWQ	FLLELLTDKD	A--RDCISWV	G-DEGEFKLN	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMERM	RRGSLQ-LWQ	FLVTLDDPA	N--AHFIAWT	G-RGMEFKLI	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMER81	RRGSLQ-LWQ	FLVALLDDPA	N--SHFIAWT	G-RGMEFKLI	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUME1AF	RRGALQ-LWQ	FLVALLDDPT	N--AHFIAWT	G-RGMEFKLI	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
MUSPEA3	RRGALQ-LWQ	FLVALLDDPT	N--AHFIAWT	G-RGMEFKLI	--DPDEVARR	WGERK-NKPK	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMPEP1	GSQIQ-LWQ	FLLELLQKEE	F--RHVIAWQ	QGEYGEFVK	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMELK1	MDSVT-LWQ	FLQLLREQG	N--GHIIISWT	SRDGGEFKLV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
MUSSAP1	MDSAIT-LWQ	FLQLLQEPQ	N--EHMICWT	SNDG-EFKLL	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
MUSNET	MESAIT-LWQ	FLHLLLDQK	H--EHLICWT	SNDG-EFKLL	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
DROE74A	REGSTTYLWE	FLKLQLQDRE	Y--CPRFIKWT	NREKGVFKLV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
MUSELF1	GKGNITTYLWE	FLLALLQDKA	T--CPKYIKWT	QREKGIFFKLV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMERF1	GKGNITTYLWE	FLLDLLQDKN	T--CPRYIKWT	QREKGIFFKLV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMNERF1	GKGNITTYLWE	FLLDLLQDKN	T--CPRYIKWT	QREKGIFFKLV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
DROETS4	GGGSHIHLWQ	FLKELLASPO	V--NGTAIRWI	DRSKGIFKIE	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMESX	HAPRGTHLWE	FIRDILIHPE	L--NEGLMKWE	NRHEGVFKFL	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
DROYAN	PNTNGRLLWD	FLQQLLNDRN	QKYSDLIAWK	CRDTGVFKIV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
MUSPU1	SKKKIR-LYQ	FLLDLLRSQD	MK--DSIWWV	DKDKGTFOFS	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF
HUMTEL	RIADCRLLWD	YVYQLLSDS-	-RYENFIRWE	DKESKIFRIV	--DPDEVARR	WGERK-NKPN	MNYDKLSRGL	RYDDKNIIH	KTS-GKRYVY	RF

FIG. 2A

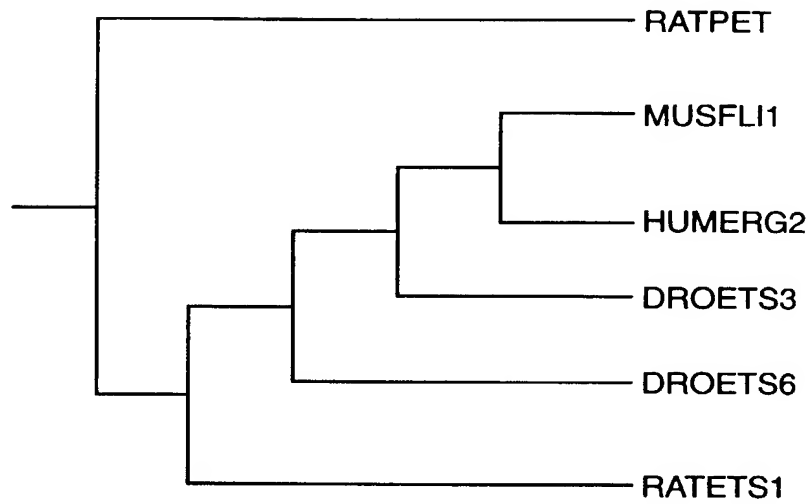
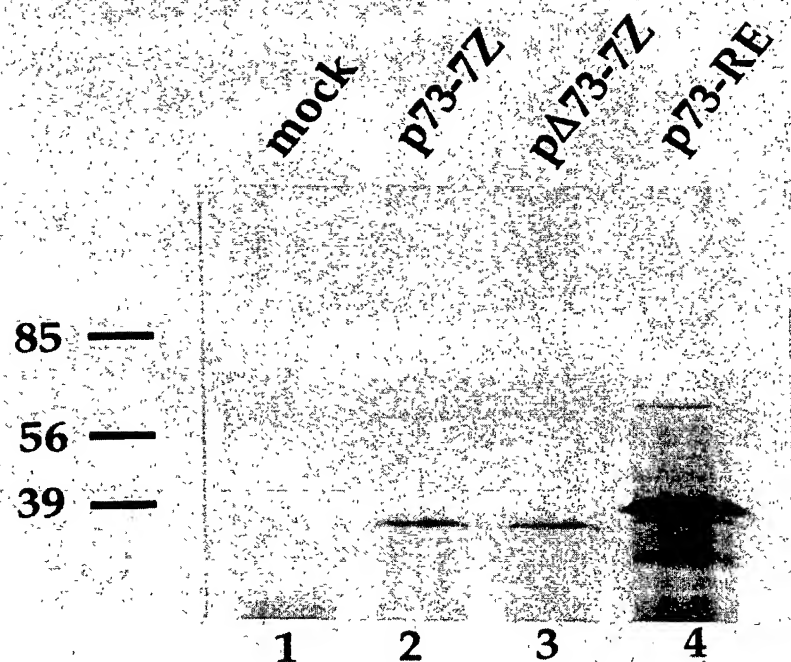
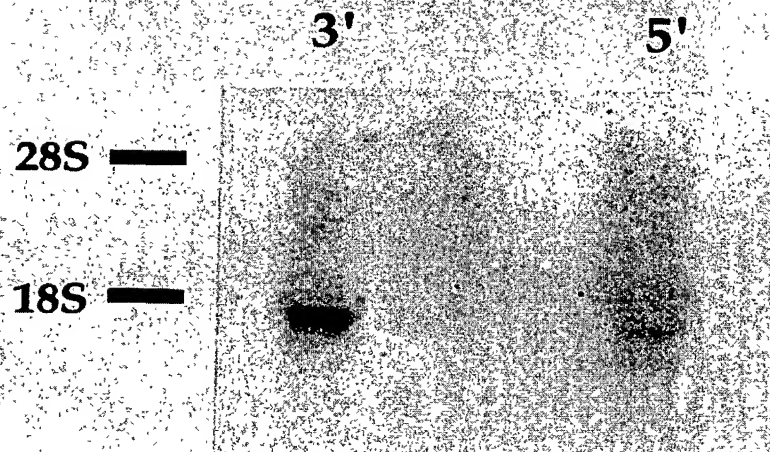
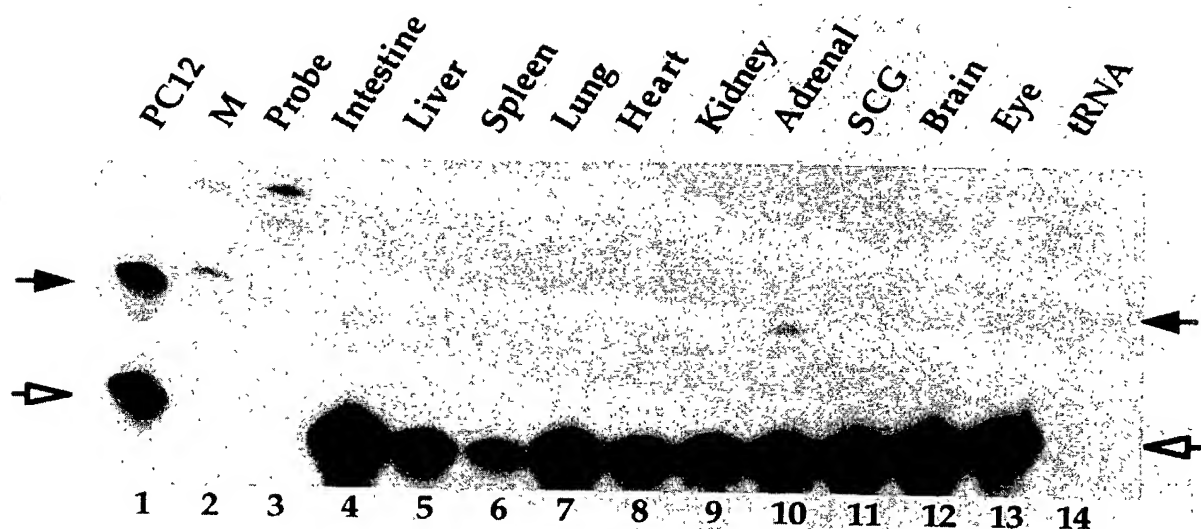


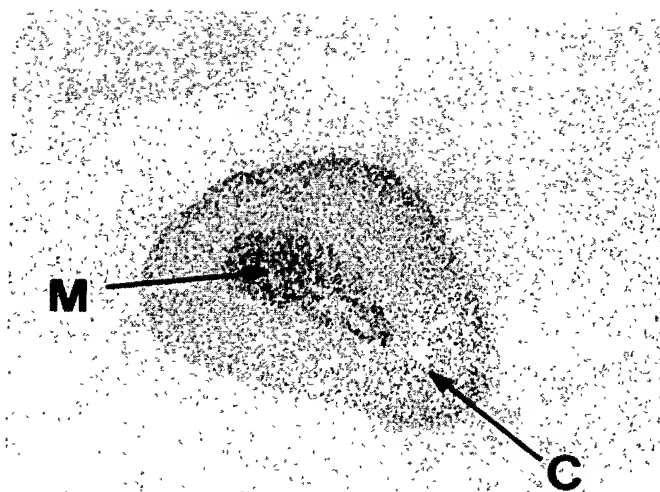
FIG. 2B

**A****B****FIG. 3**

**A**



**B**



**FIG. 4**

anti-EE	-	-	-	-	-	-	-	+
EE-PET-1	-	-	+	+	+	+	+	+
wt PEA3	-	-	-	+	++	-	-	-
mut PEA3	-	-	-	-	-	+	++	-

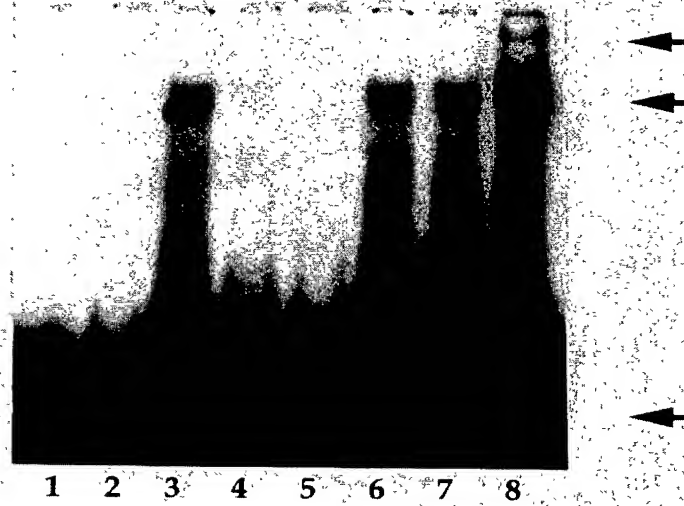


FIG.5

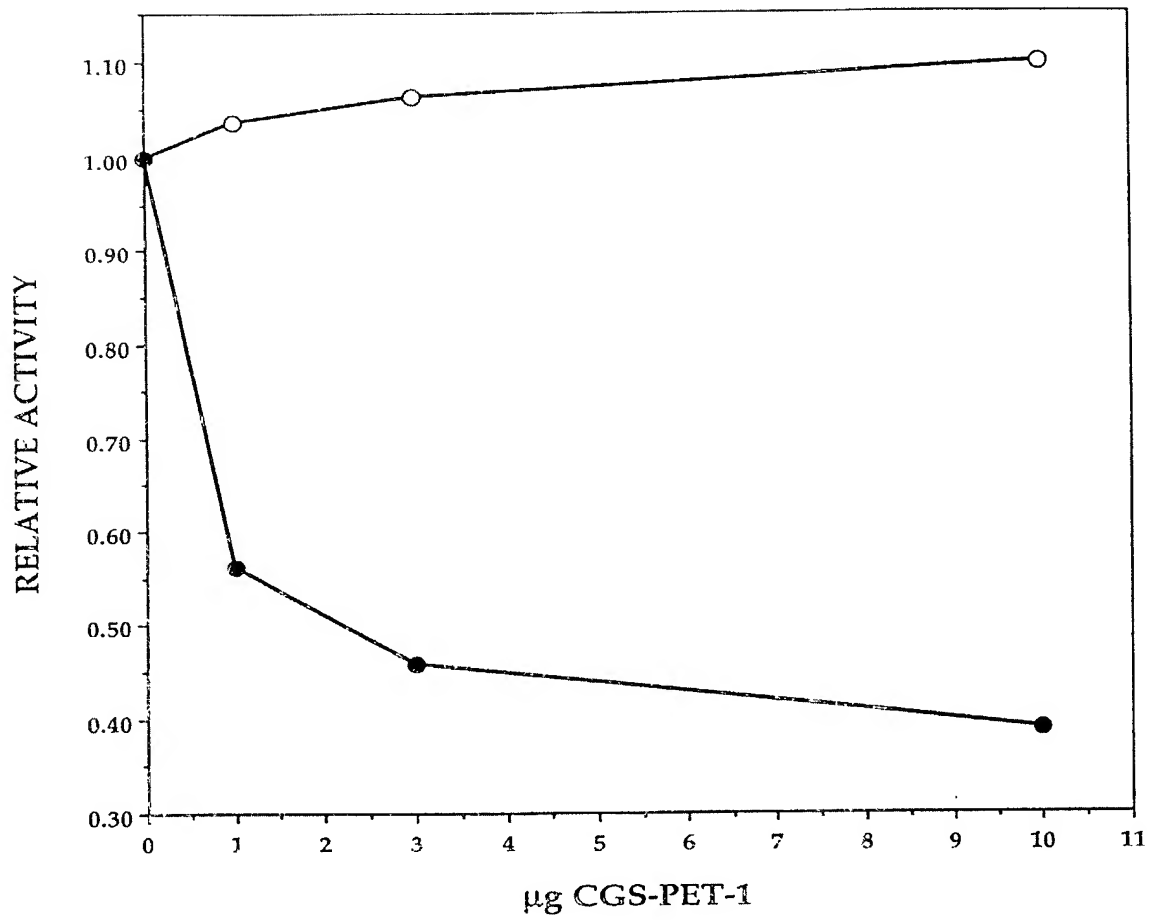


FIG. 6

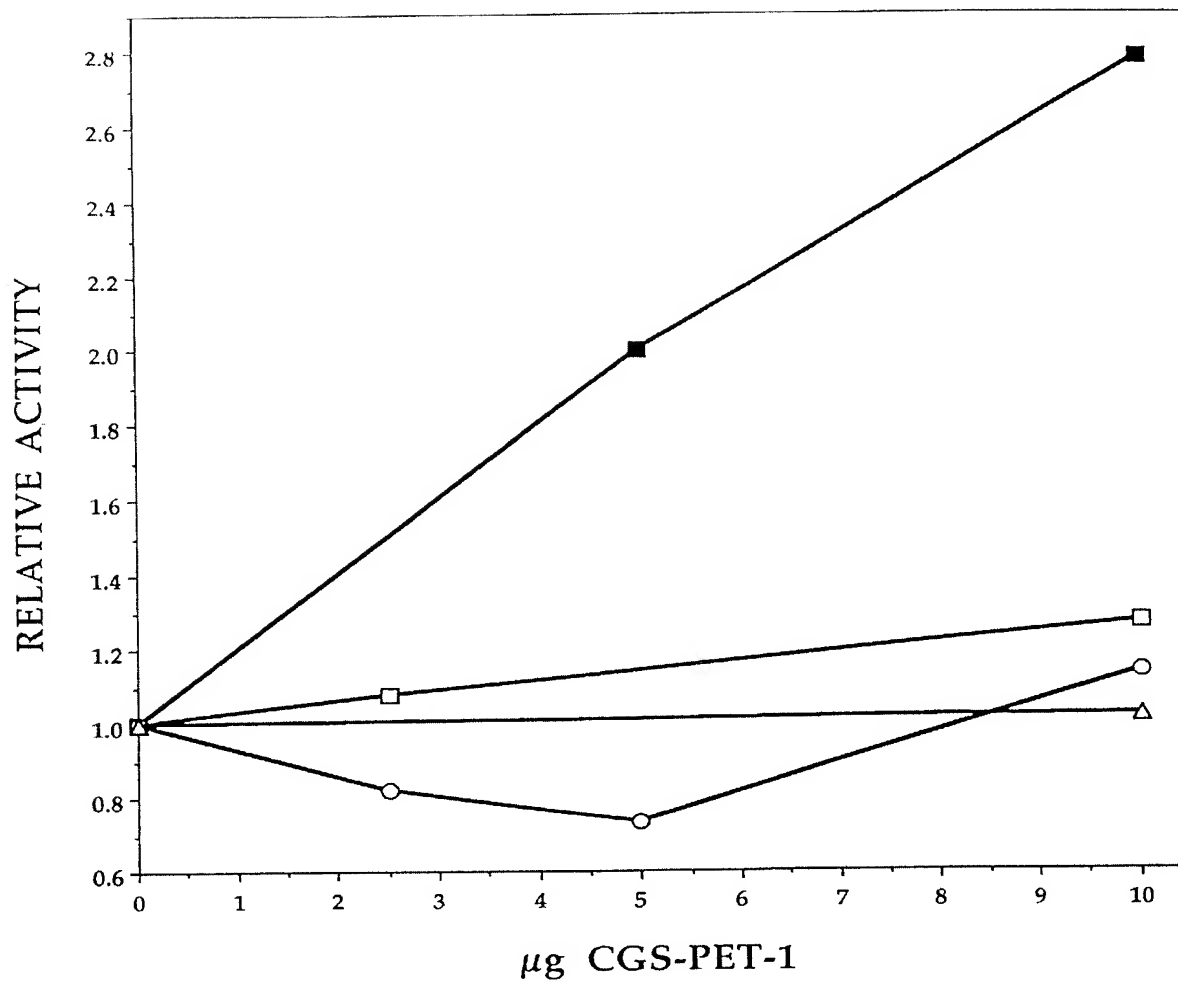


FIG. 7



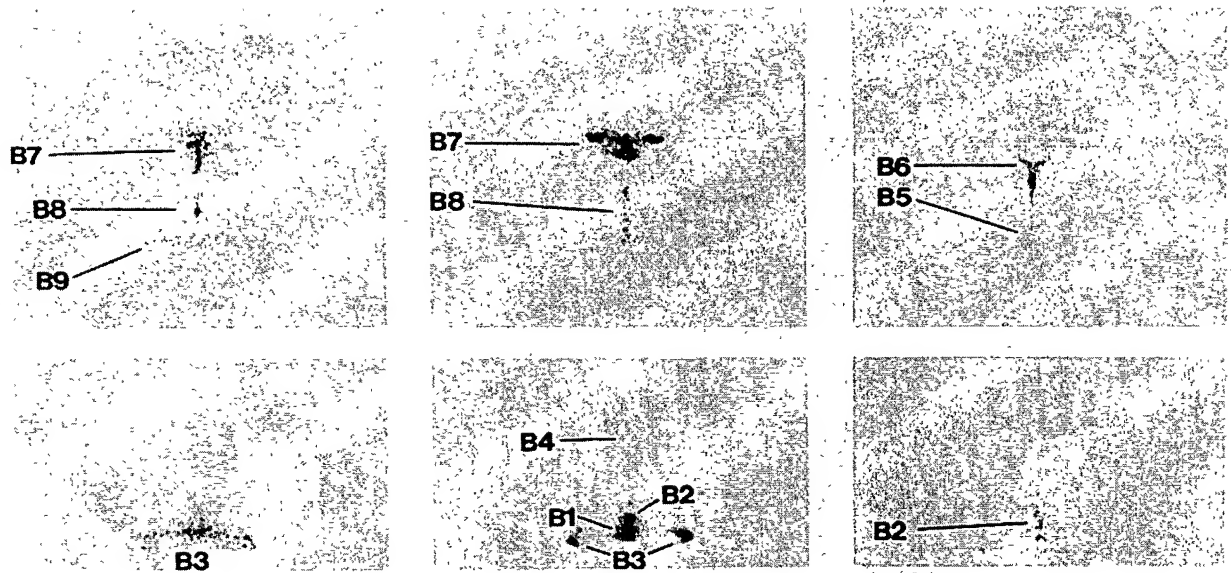


FIG. 8

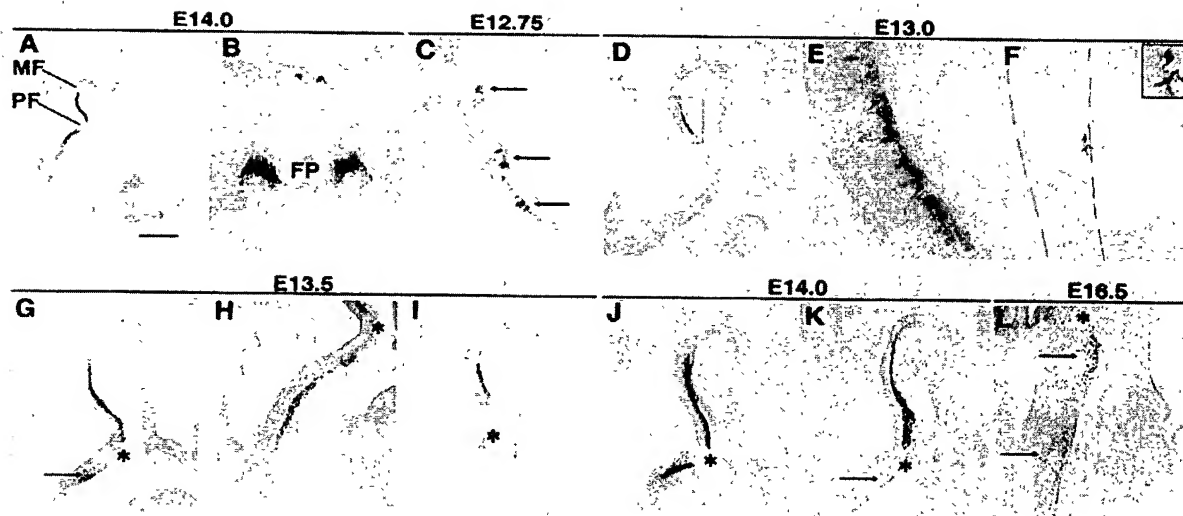


FIG.10

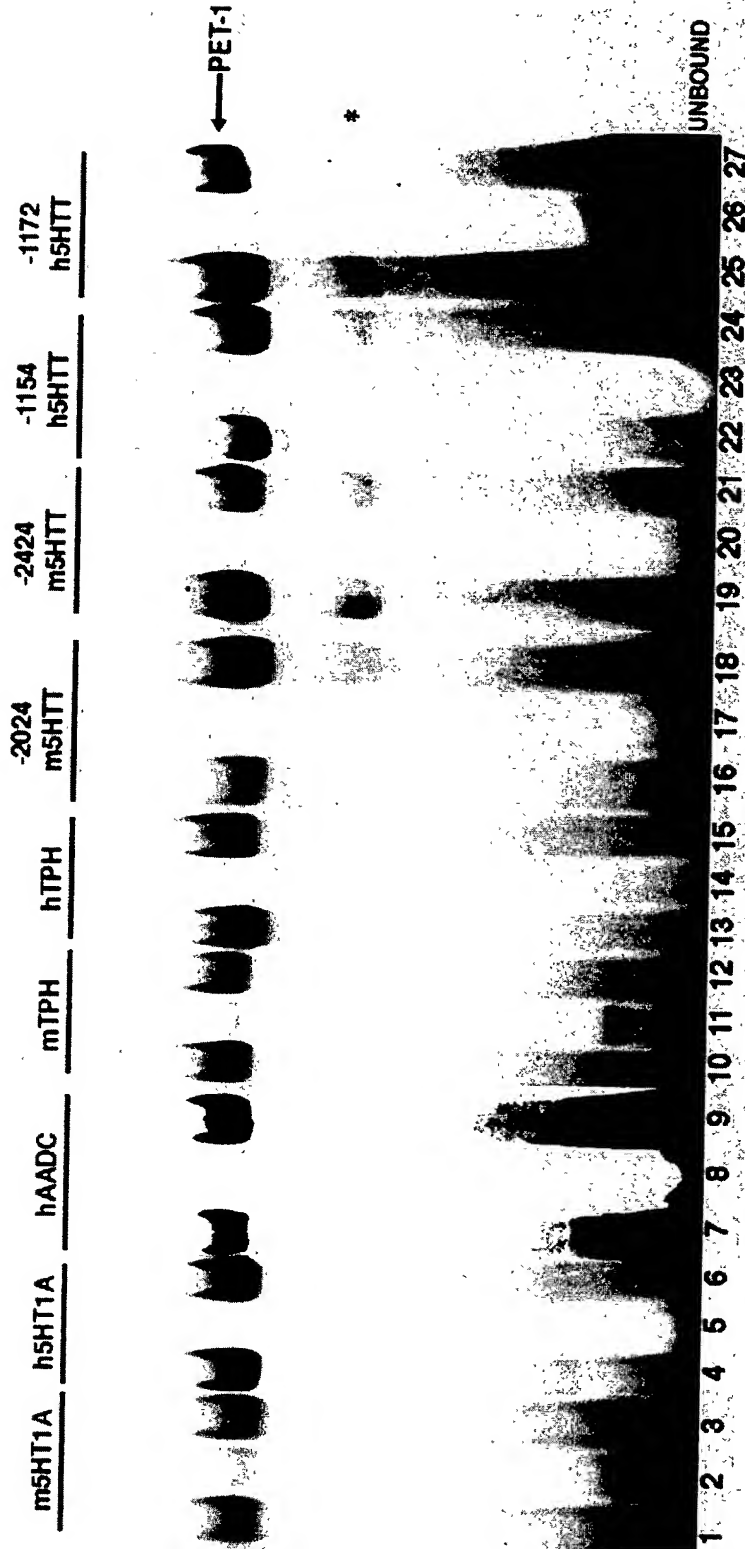
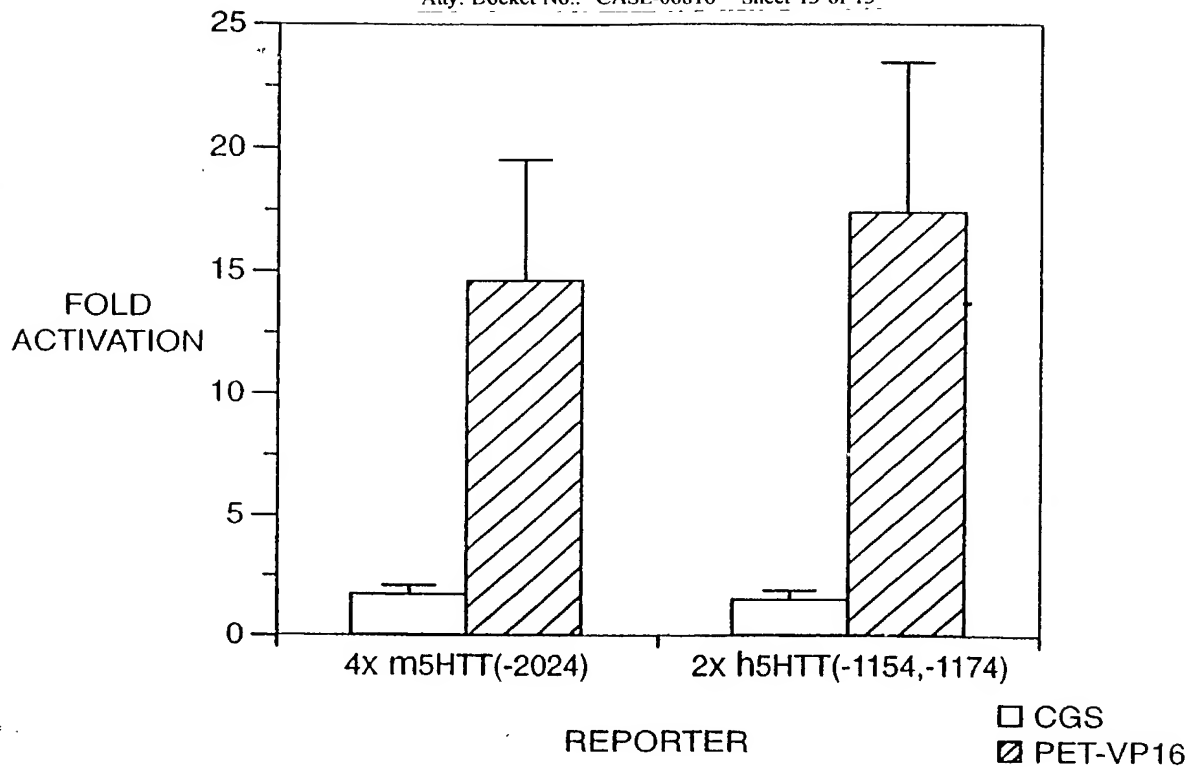
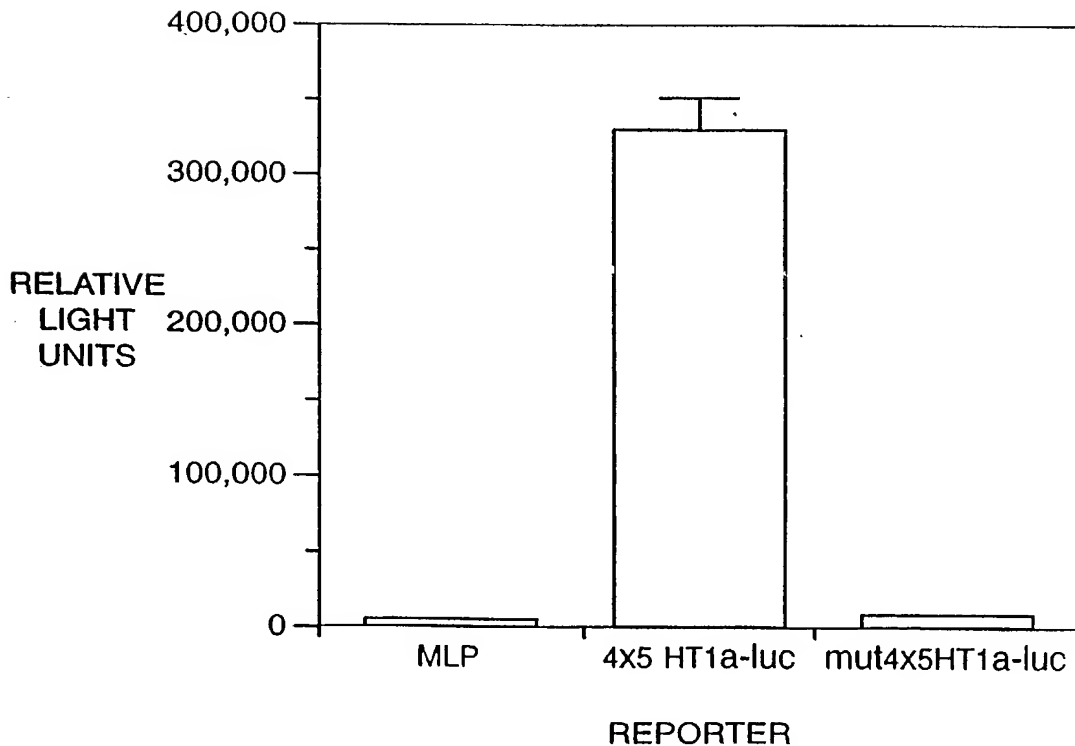


FIG.11

**FIG. 12A****FIG. 12B**